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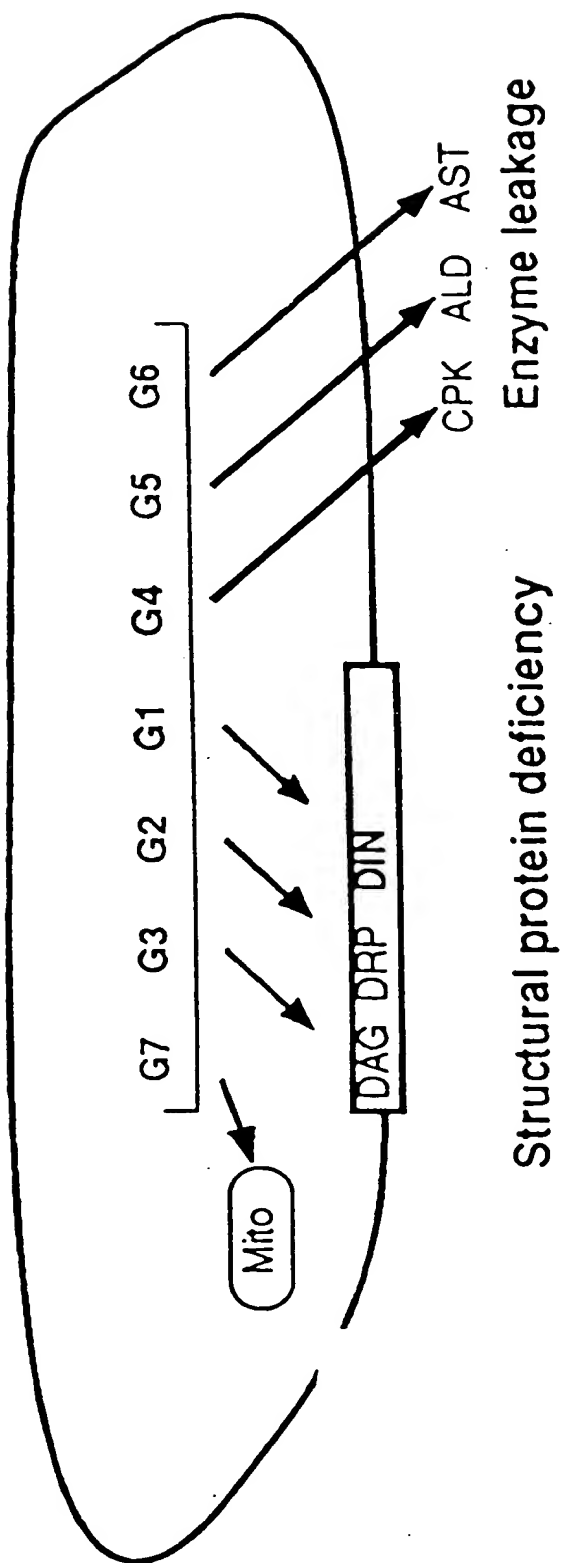
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## Structural protein deficiency

## Enzyme leakage

CPK ALD AST

DAG DRP DIN

G7 G3 G2 G1 G4 G5 G6

1  
G.  
F

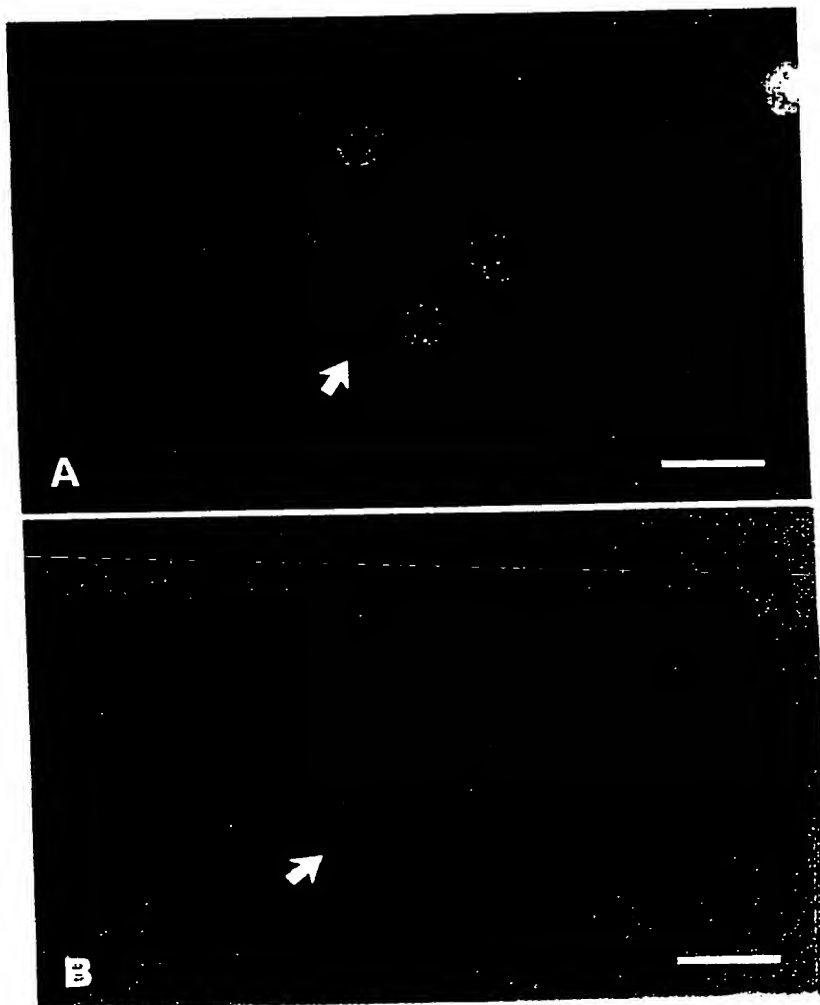
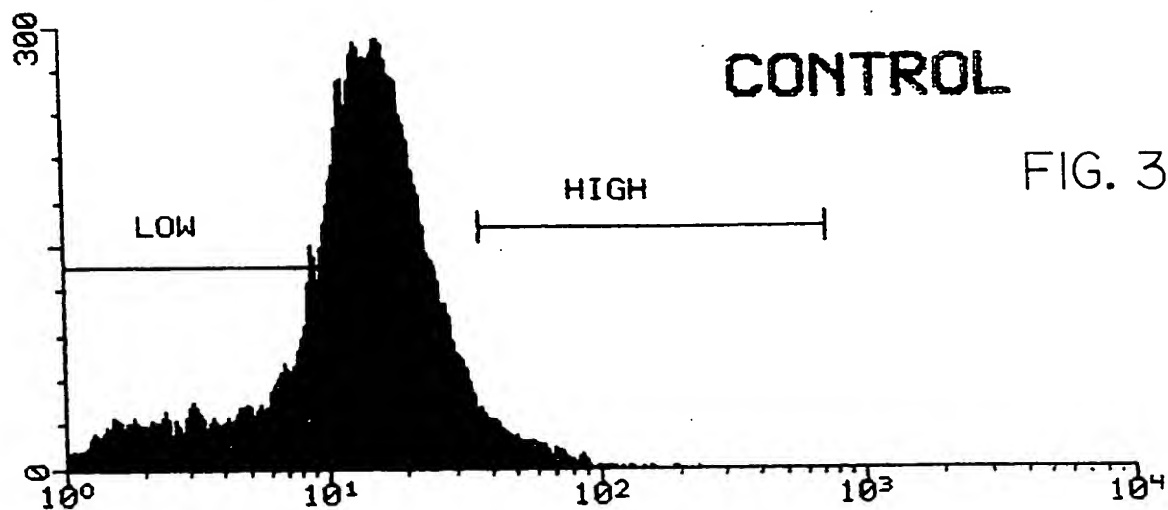
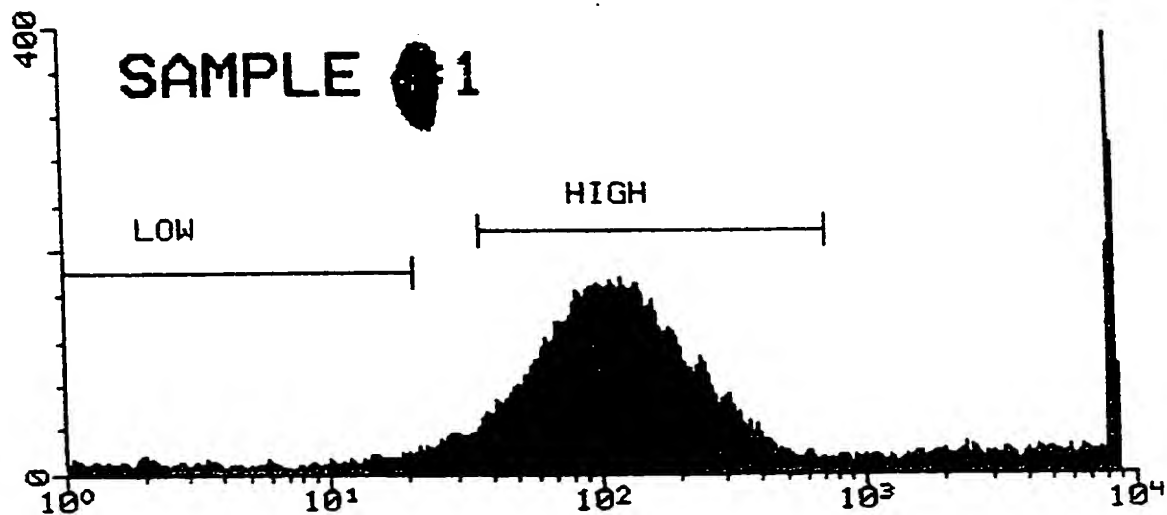


FIG. 2

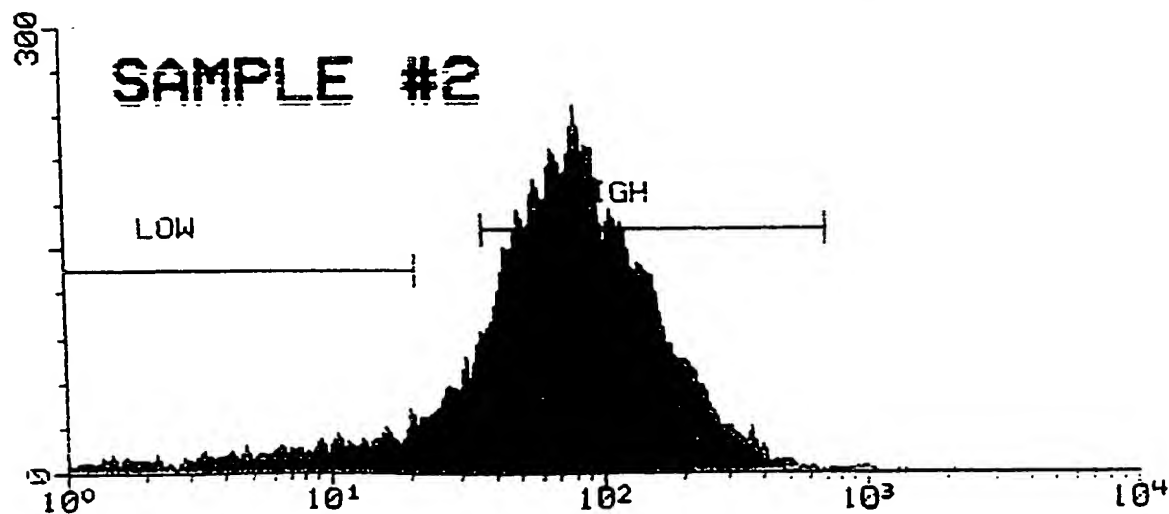
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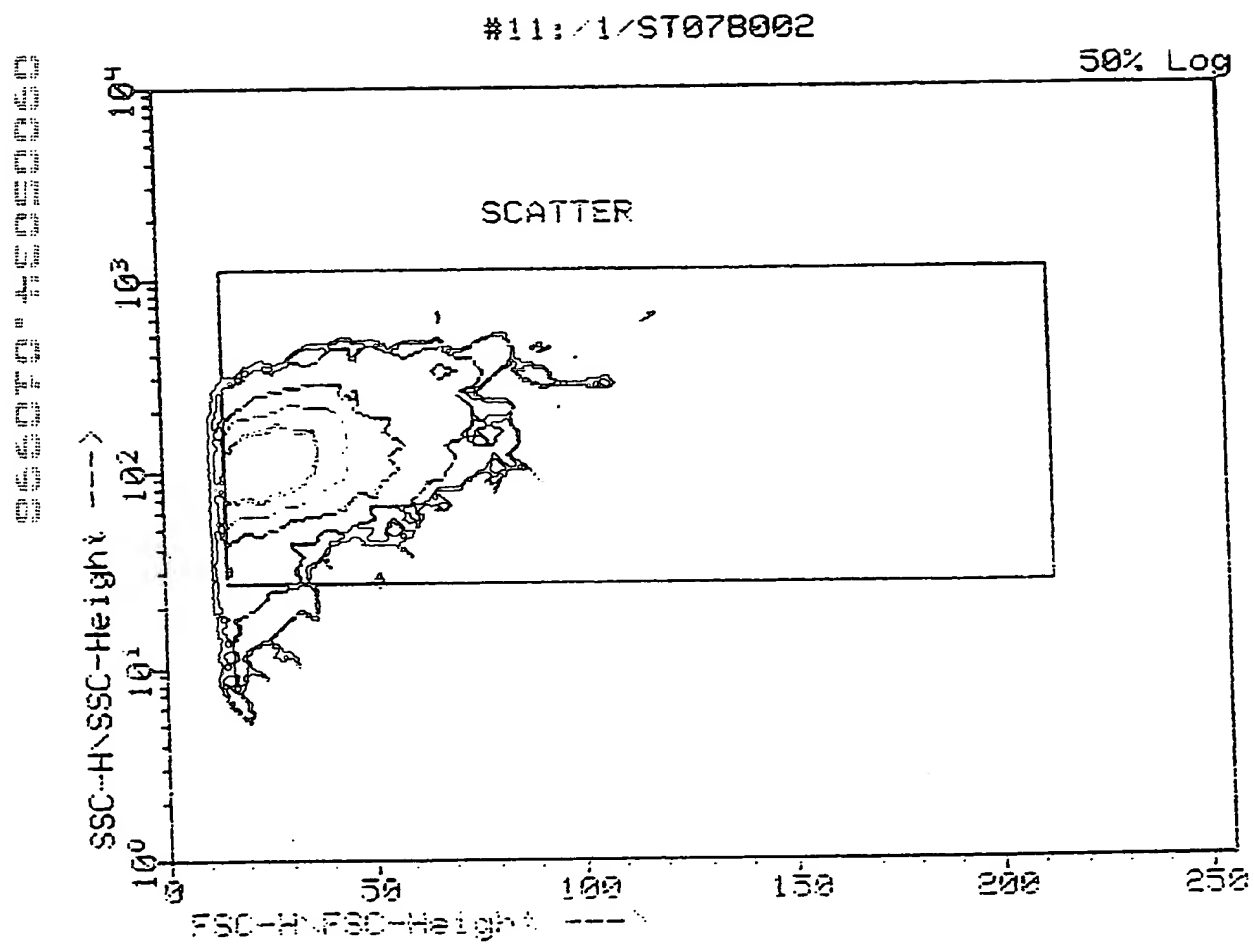


FIG. 4

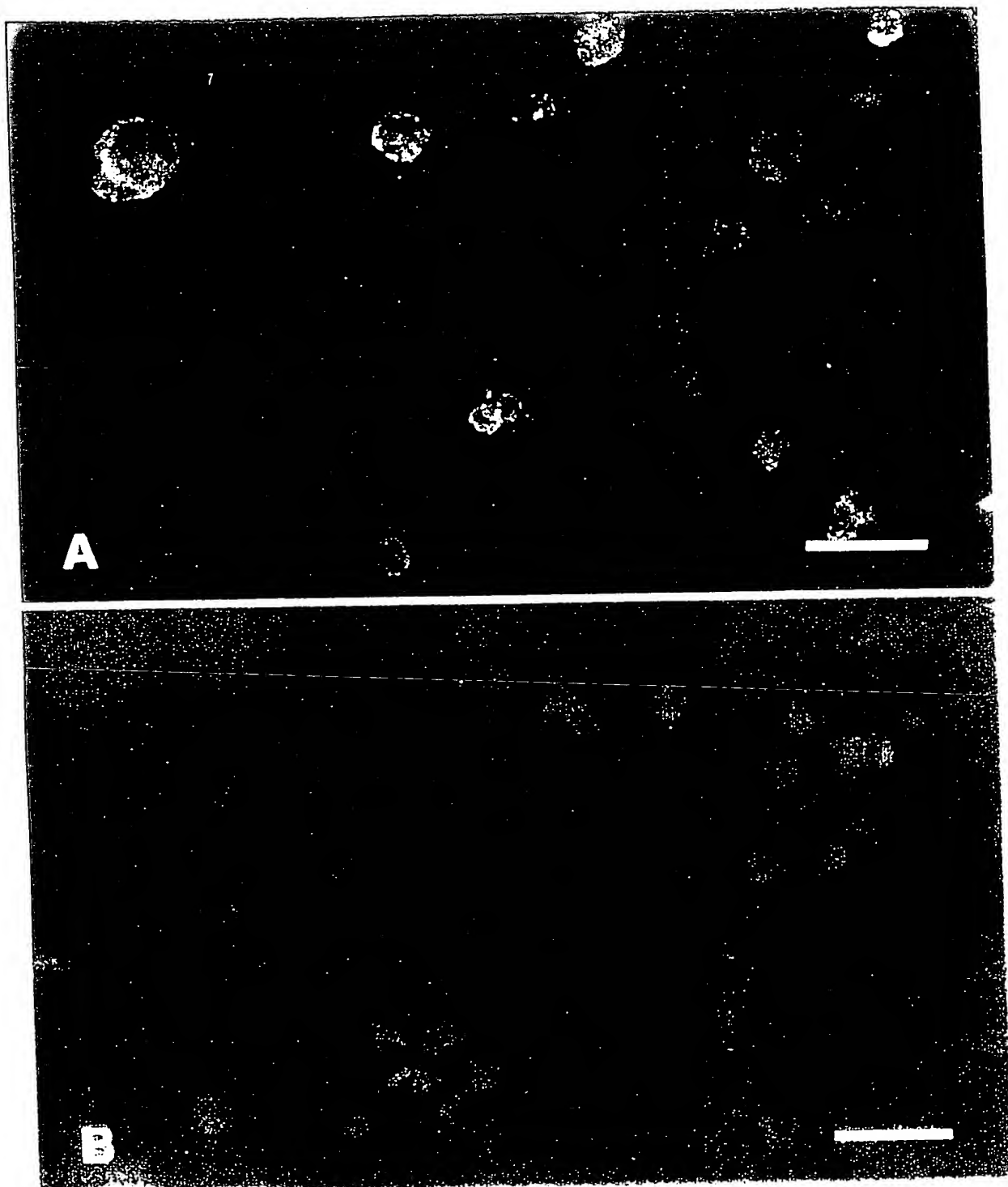


FIG. 5

# ANGLE OF INJECTION DETERMINES MYOBLAST DISTRIBUTION $A > B > C > D$



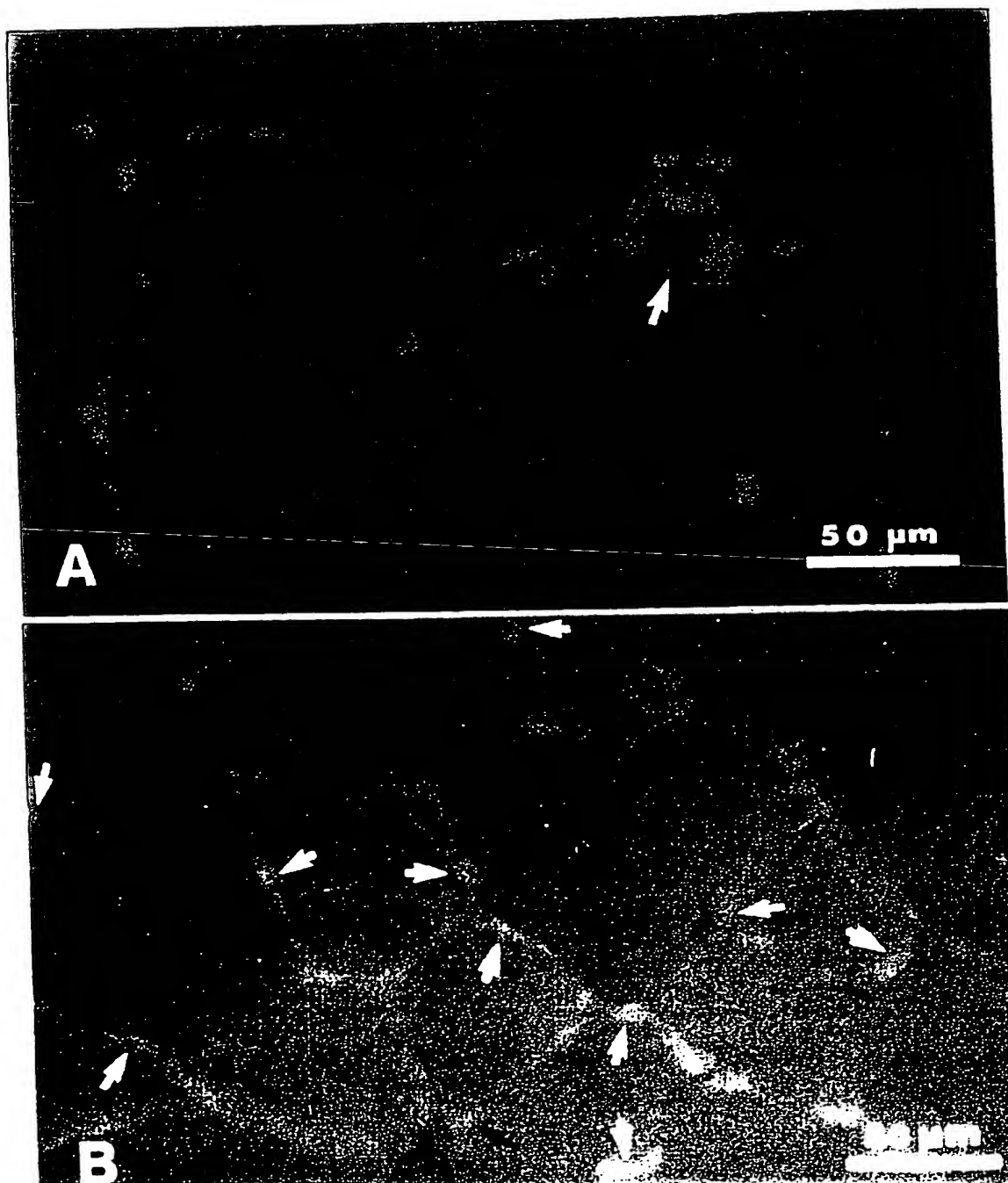


FIG. 7



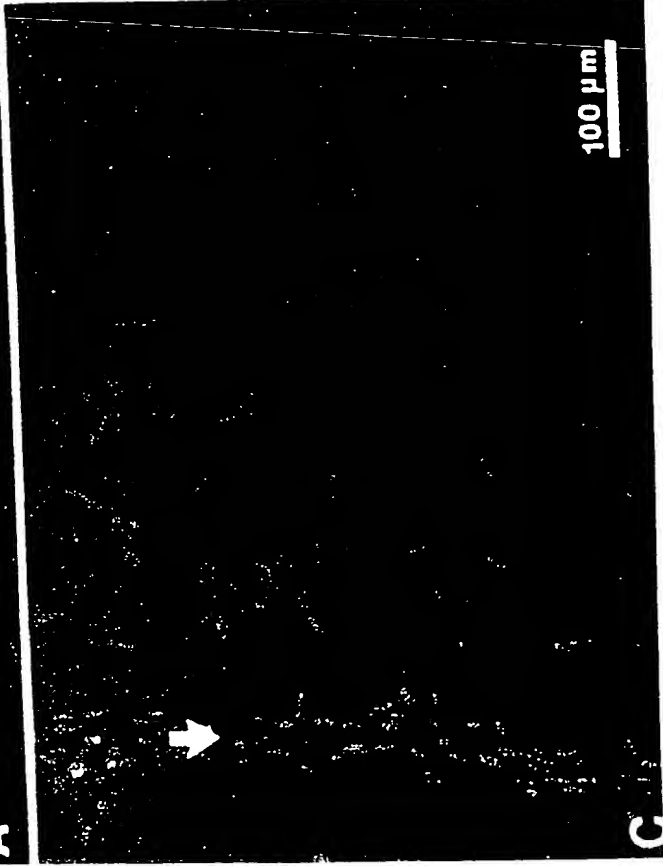
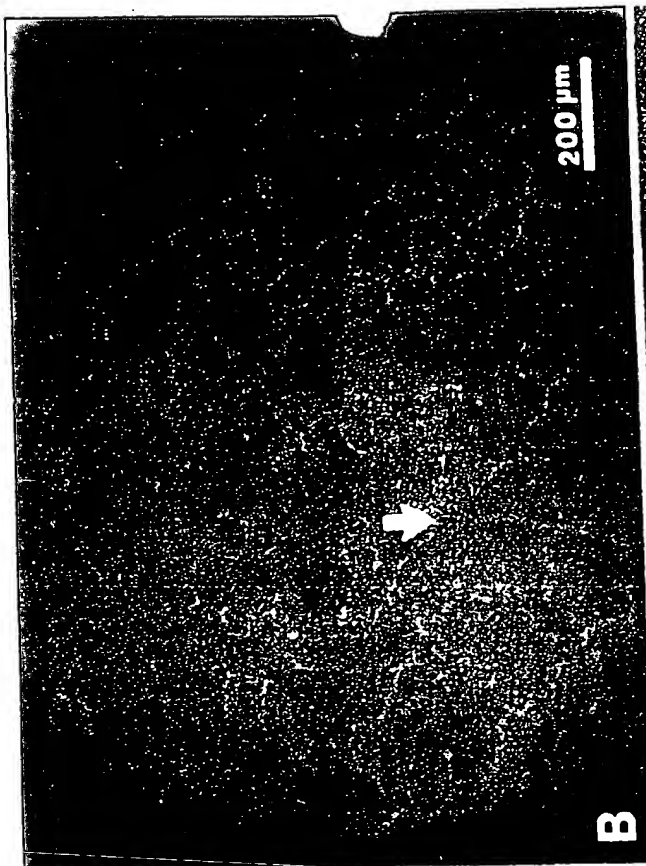
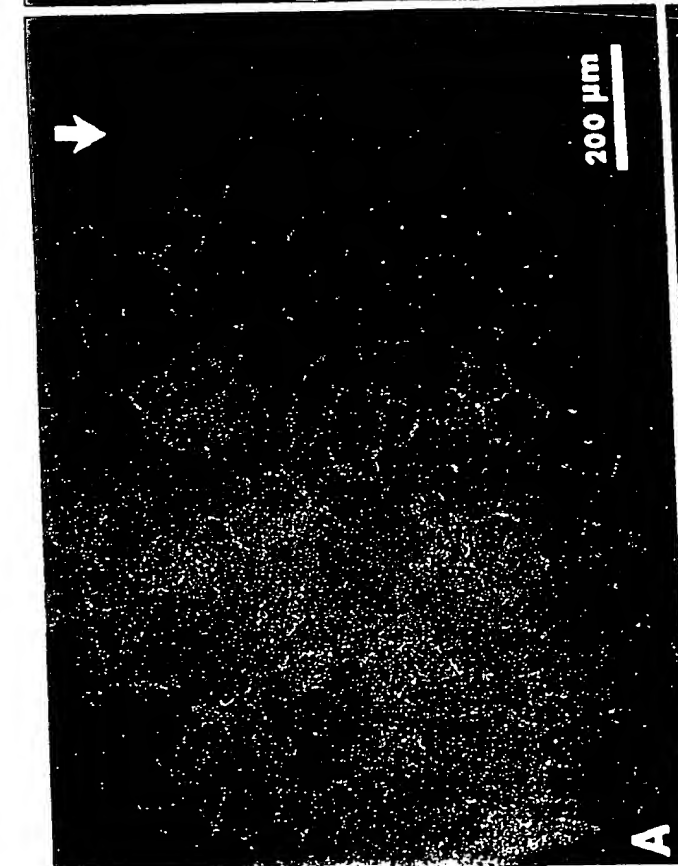


FIG. 8

# PRODUCTION OF ALLOPHENIC TWINS

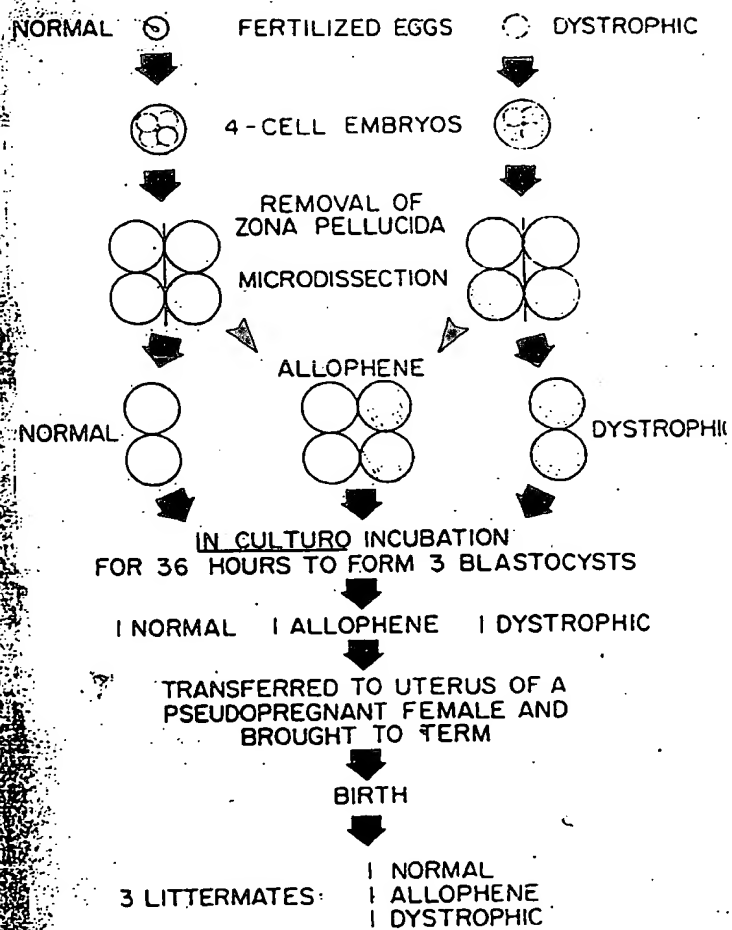
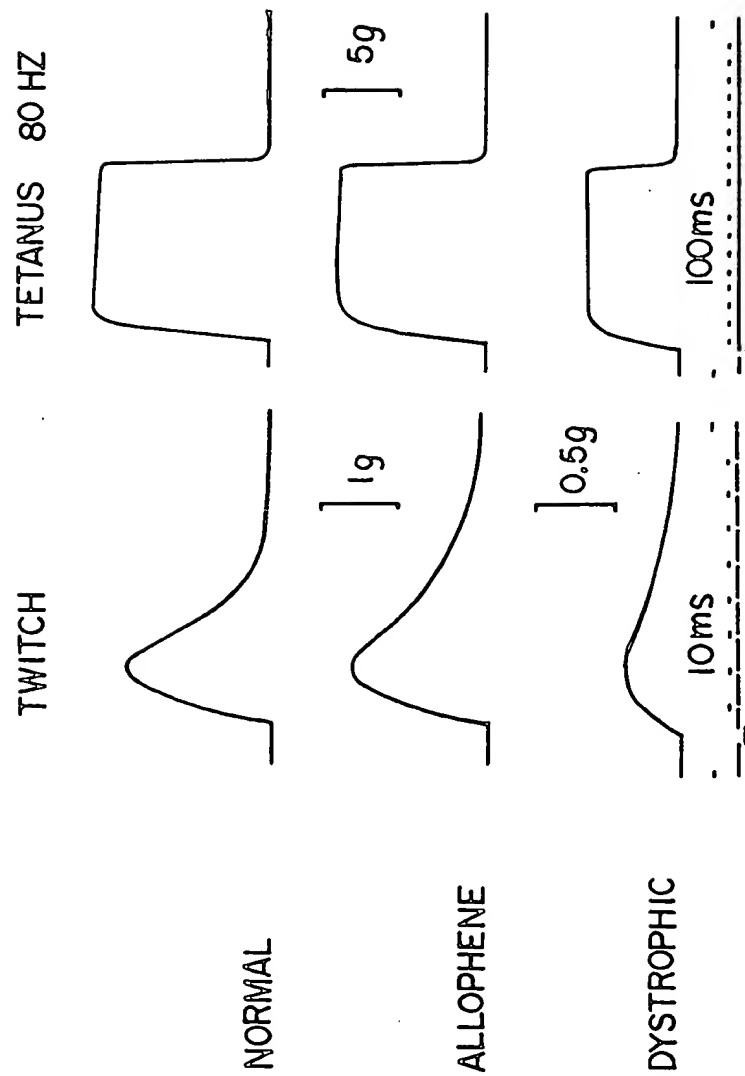


FIG.9



FIG. 10

*Journal of the American Medical Association*



II  
G<sup>o</sup>  
F

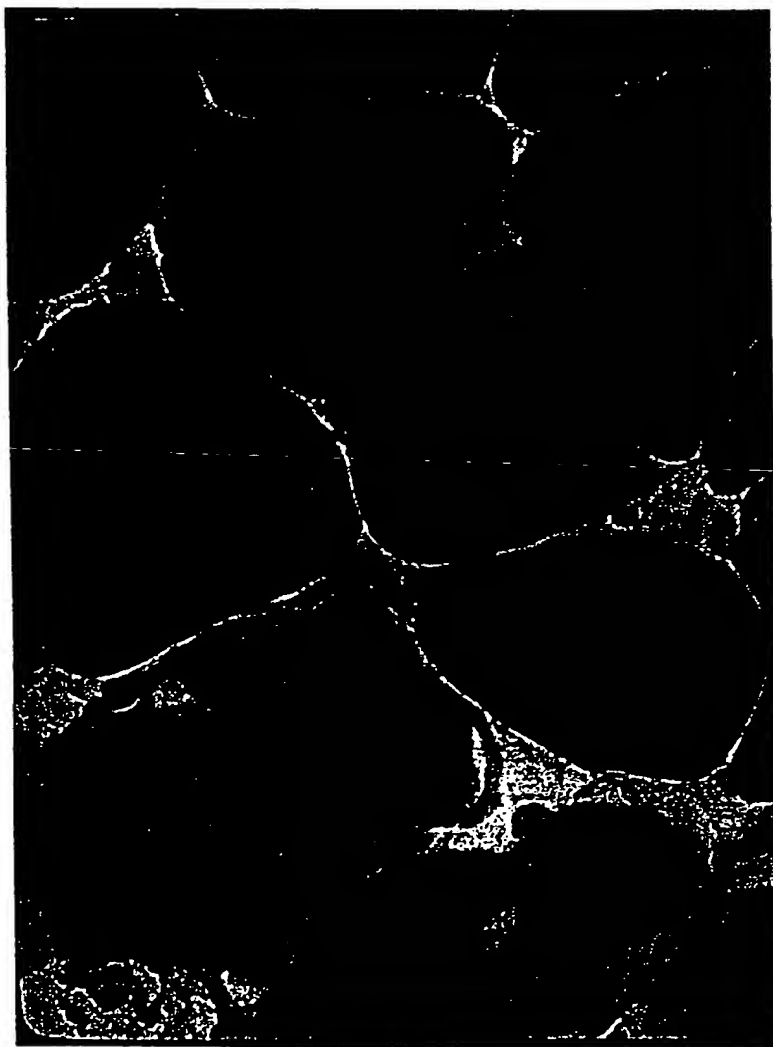


FIG. 12

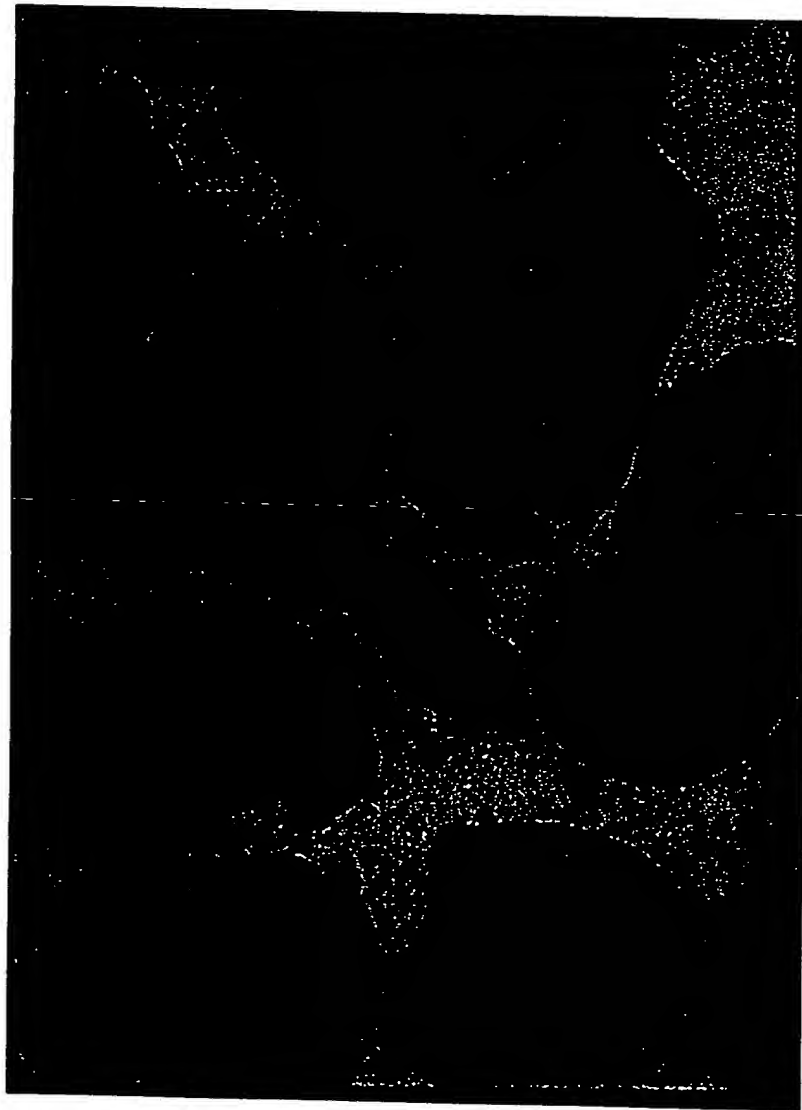


FIG. 13

# Instrument components

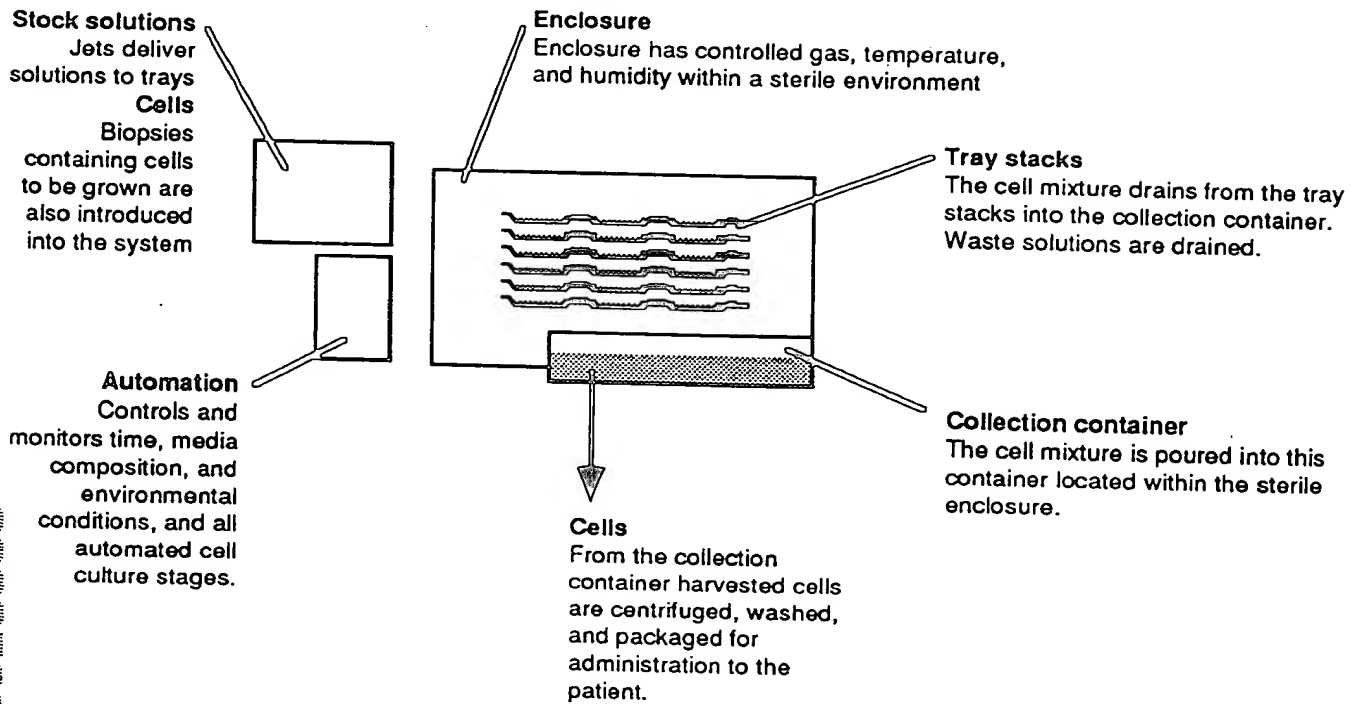
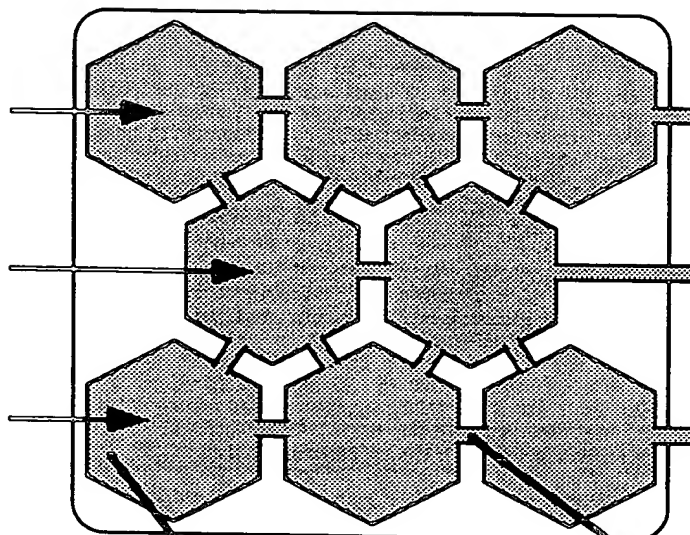


FIG.14

# Culture trays

Top view

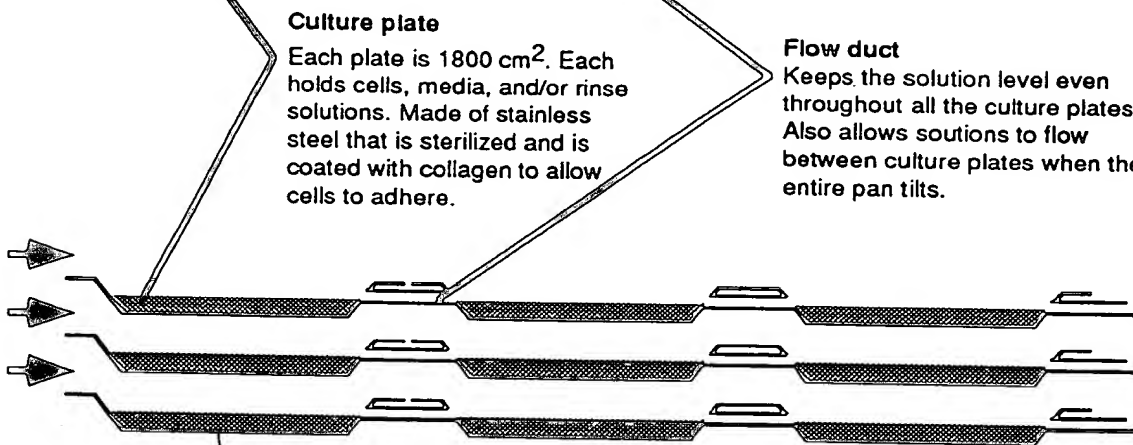
**Jets**  
Inject solution onto culture plates



**Drainage**  
Solutions from culture plates are either collected or discarded.

**Side view**

**Jets**  
Inject gases and solution onto culture plates



**Culture plate**  
Each plate is 1800 cm<sup>2</sup>. Each holds cells, media, and/or rinse solutions. Made of stainless steel that is sterilized and is coated with collagen to allow cells to adhere.

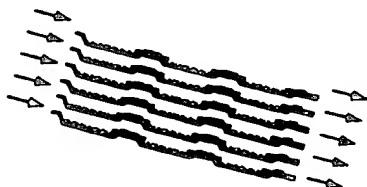
**Flow duct**  
Keeps the solution level even throughout all the culture plates. Also allows solutions to flow between culture plates when the entire pan tilts.

**Tray stacks**  
Composed of many culture plates interconnected by flow ducts. Trays are stacked but do not touch.

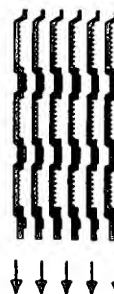
## Automated actions



**Fill**  
Jets fill trays with solution



**Wash and drain**  
Tray stacks tilt to allow solutions to drain during washing or media changes. Jets add fresh solution to trays while wash solutions are drained and discarded. Detached cell mixtures are collected.



**Drain and collect**  
Tray stacks tilt to vertical to maximize detached cell collection during harvest.

FIG.15



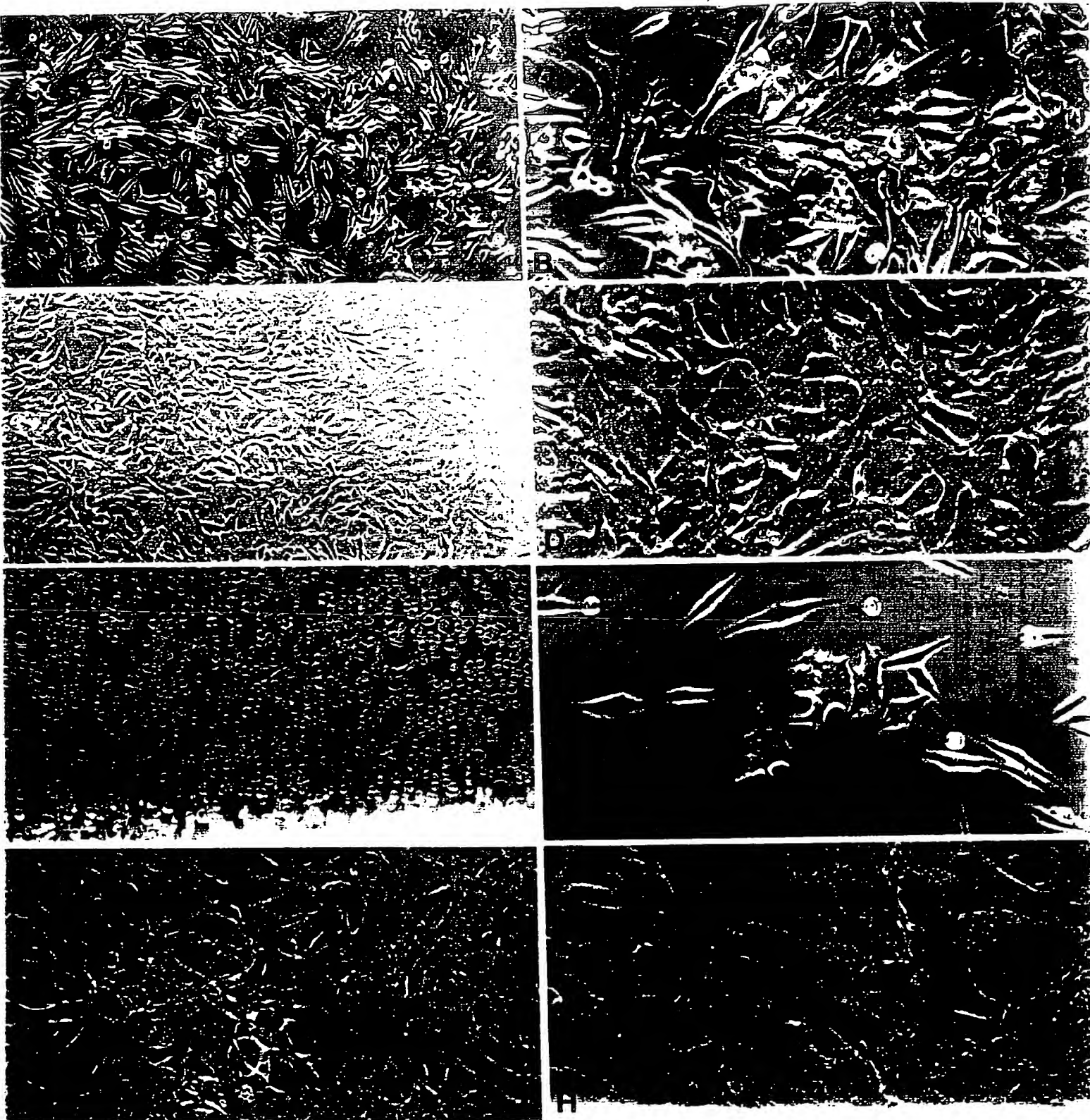


FIG.16

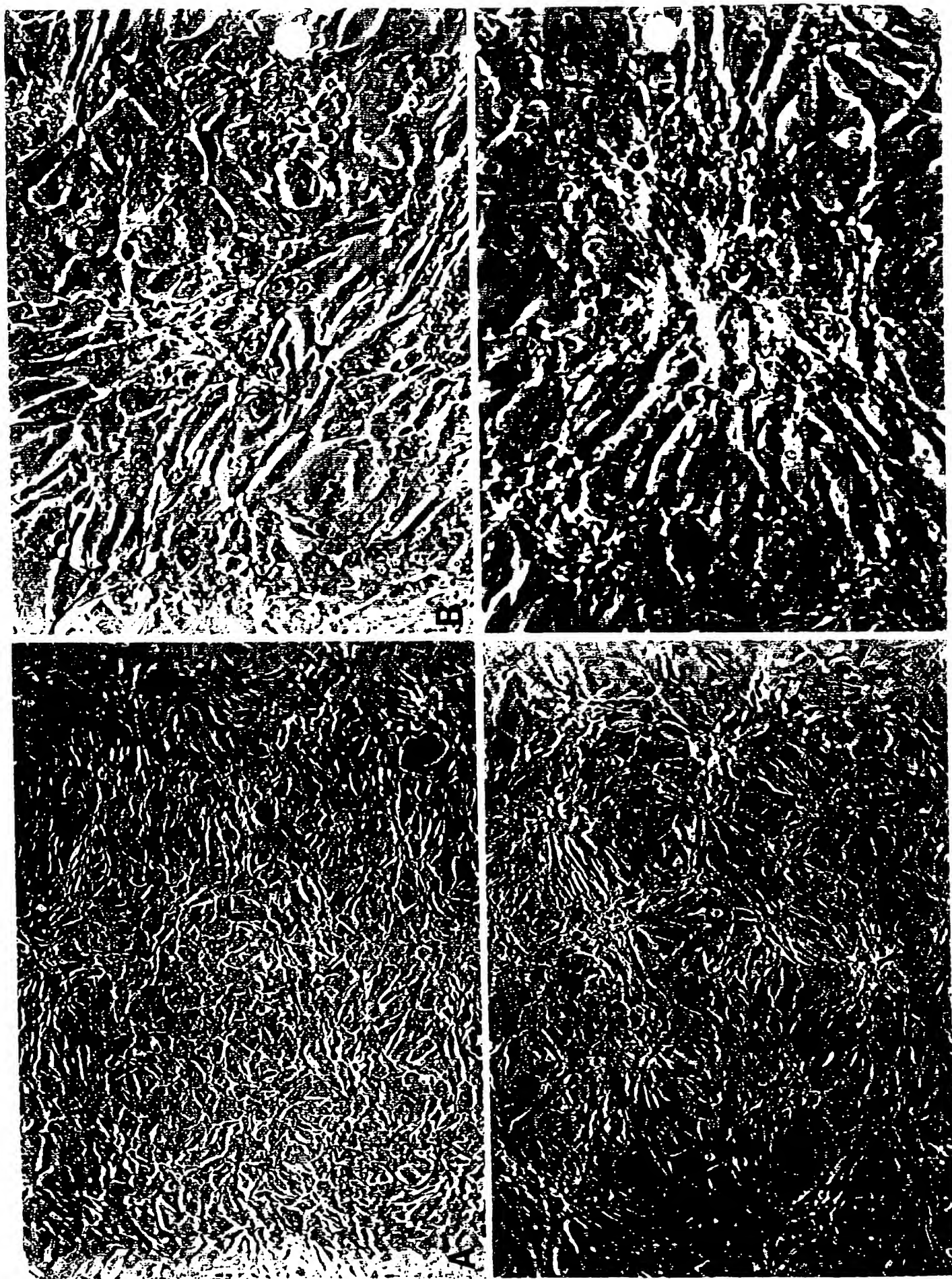
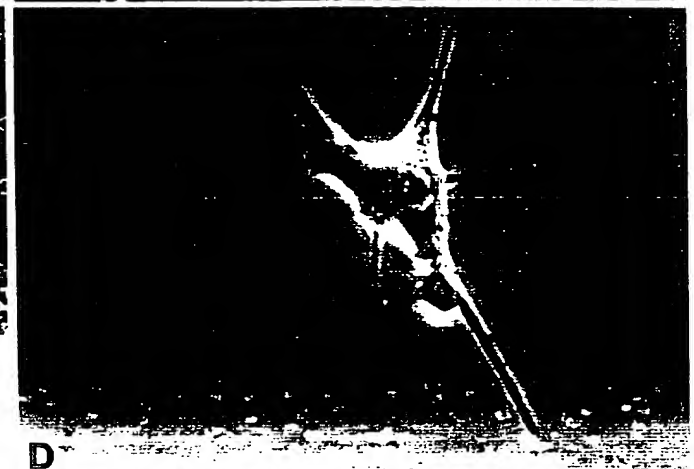
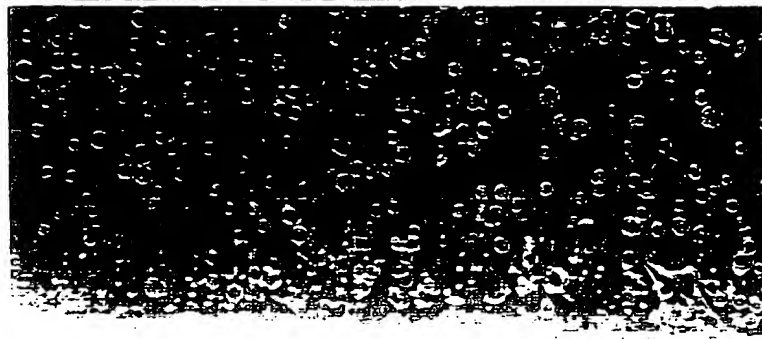
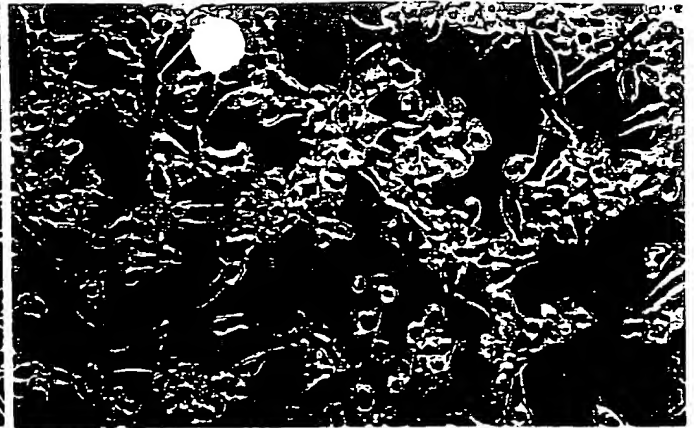
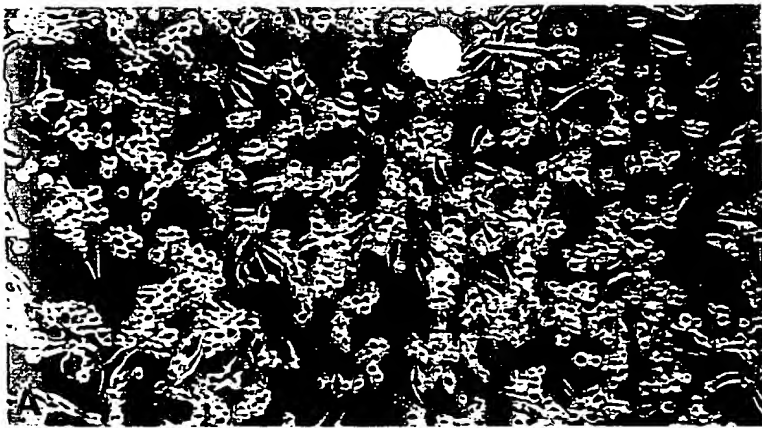


FIG.17



C

D

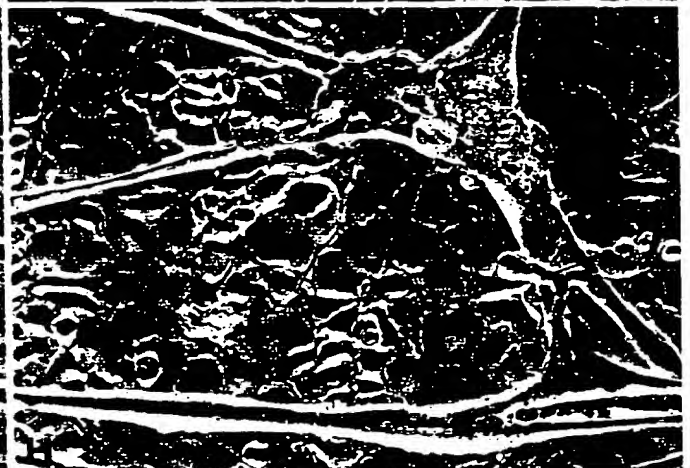
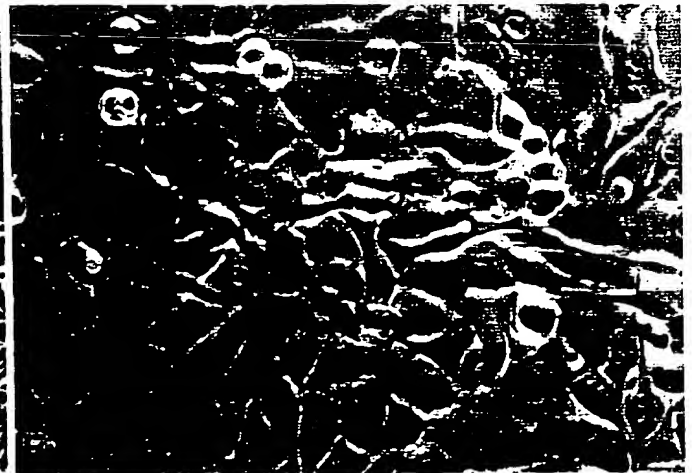
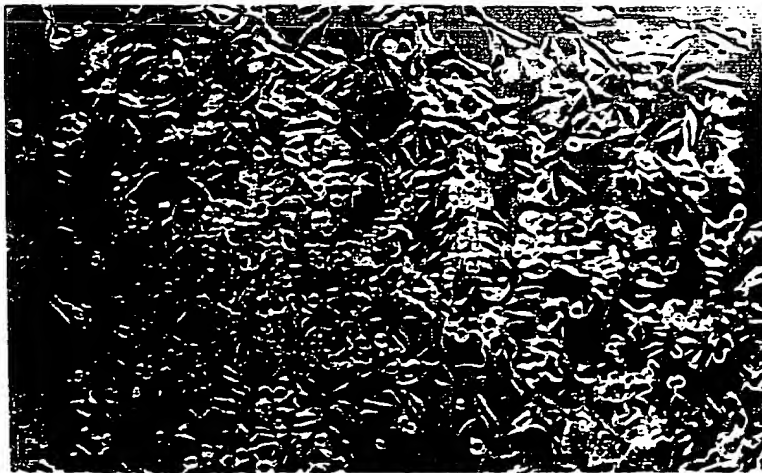


FIG. 18

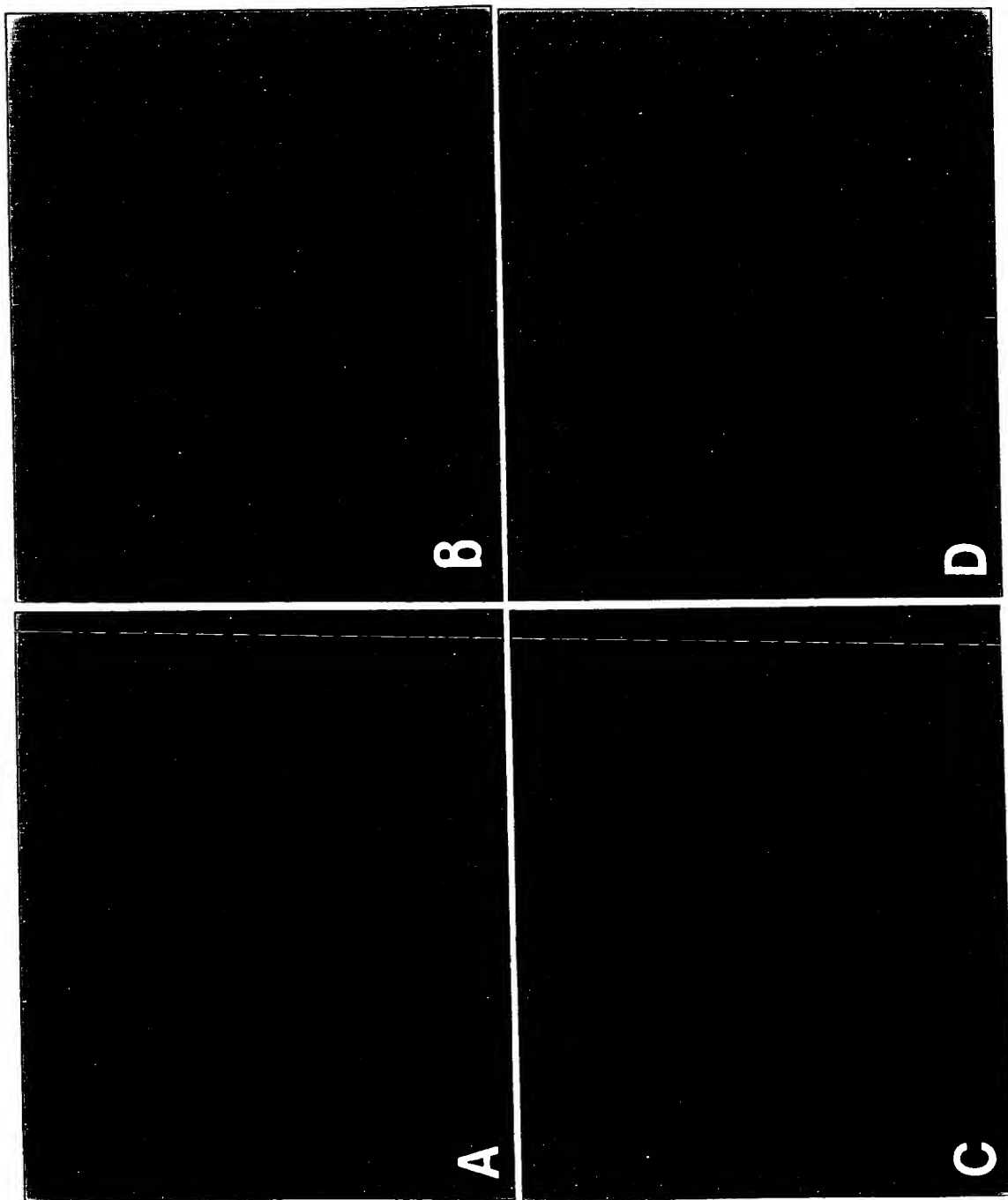


FIG.19

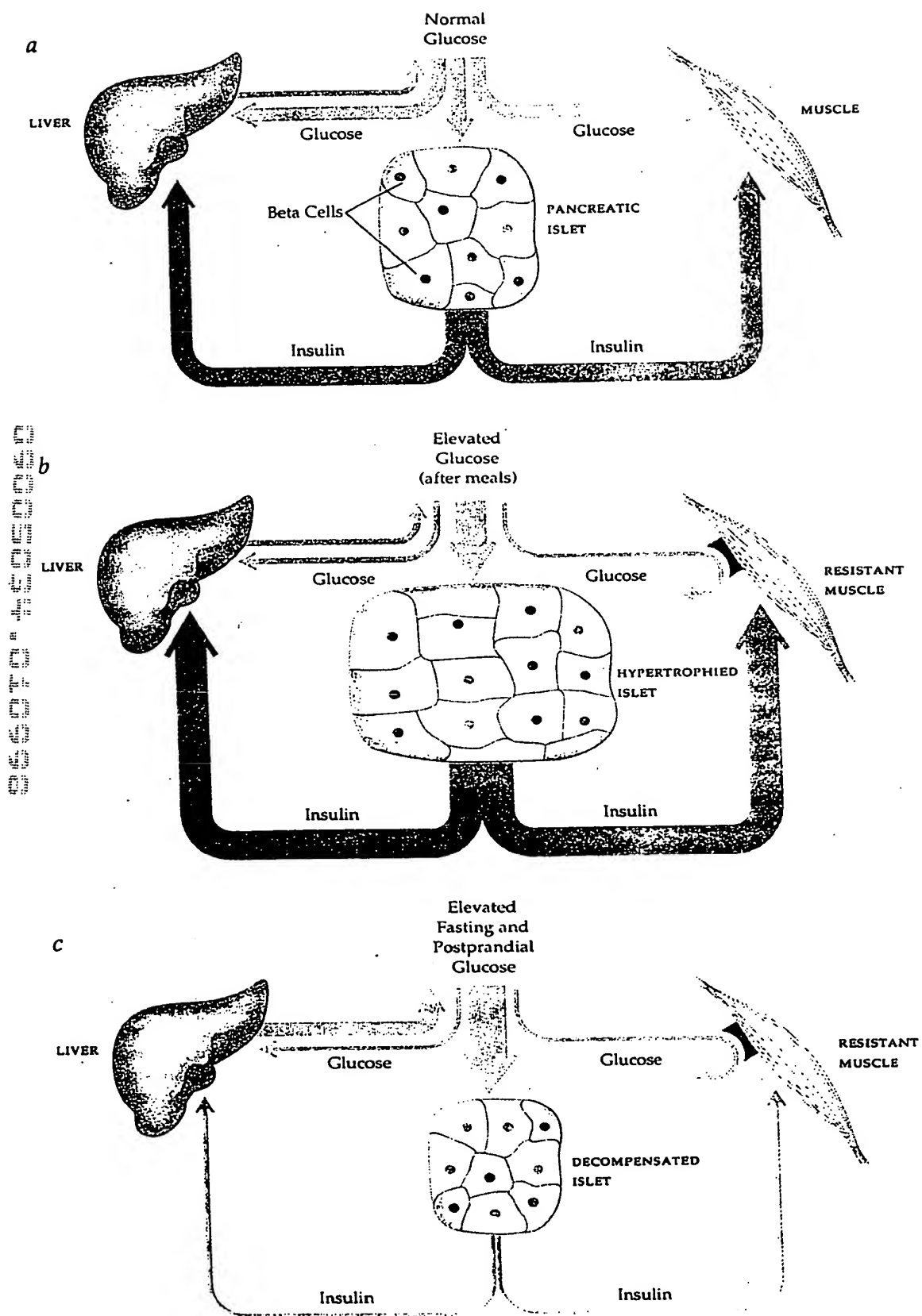


FIG. 20